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ABSTRACT

A layer 2 switch network system includes a terminal, an edge switch, and a Radius server that notifies the edge switch of a temporary MAC address allocated to the terminal. The edge switch stores therein swap data for associating the temporary MAC address with a real MAC address. When receiving a MAC frame from the terminal, the edge switch replaces the real MAC address of a source set in the MAC frame with the temporary MAC address of the source. When transmitting a MAC frame to the terminal, the edge switch replaces the temporary MAC address of a destination set in the MAC frame with the real MAC address of the destination.